

# *PRICE AND GESS*

ATTORNEYS AT LAW

2100 S.E. MAIN STREET, SUITE 250  
IRVINE, CALIFORNIA 92614-6238

JOSEPH W. PRICE  
ALBIN H. GESS  
MICHAEL J. MOFFATT  
GORDON E. GRAY III  
BRADLEY D. BLANCHE  
J. RONALD RICHBURG

OF COUNSEL  
JAMES F. KIRK

A PROFESSIONAL CORPORATION  
TELEPHONE: (949) 261-8433  
FACSIMILE: (949) 261-9072  
FACSIMILE: (949) 261-1726

e-mail: pg@pgpatentlaw.com

## **DRAWINGS (11 SHEETS)**

**Inventor(s):** Kazuhiro Yamada et al.

**Title:** GRAY-SCALE IMAGE DISPLAY DEVICE  
THAT CAN REDUCE POWER  
CONSUMPTION WHEN WRITING DATA

**Attorney's**  
**Docket No.:** NAK1-BO60

**EXPRESS MAIL LABEL NO. EL 852659002 US**

**DATE OF DEPOSIT: April 23, 2001**

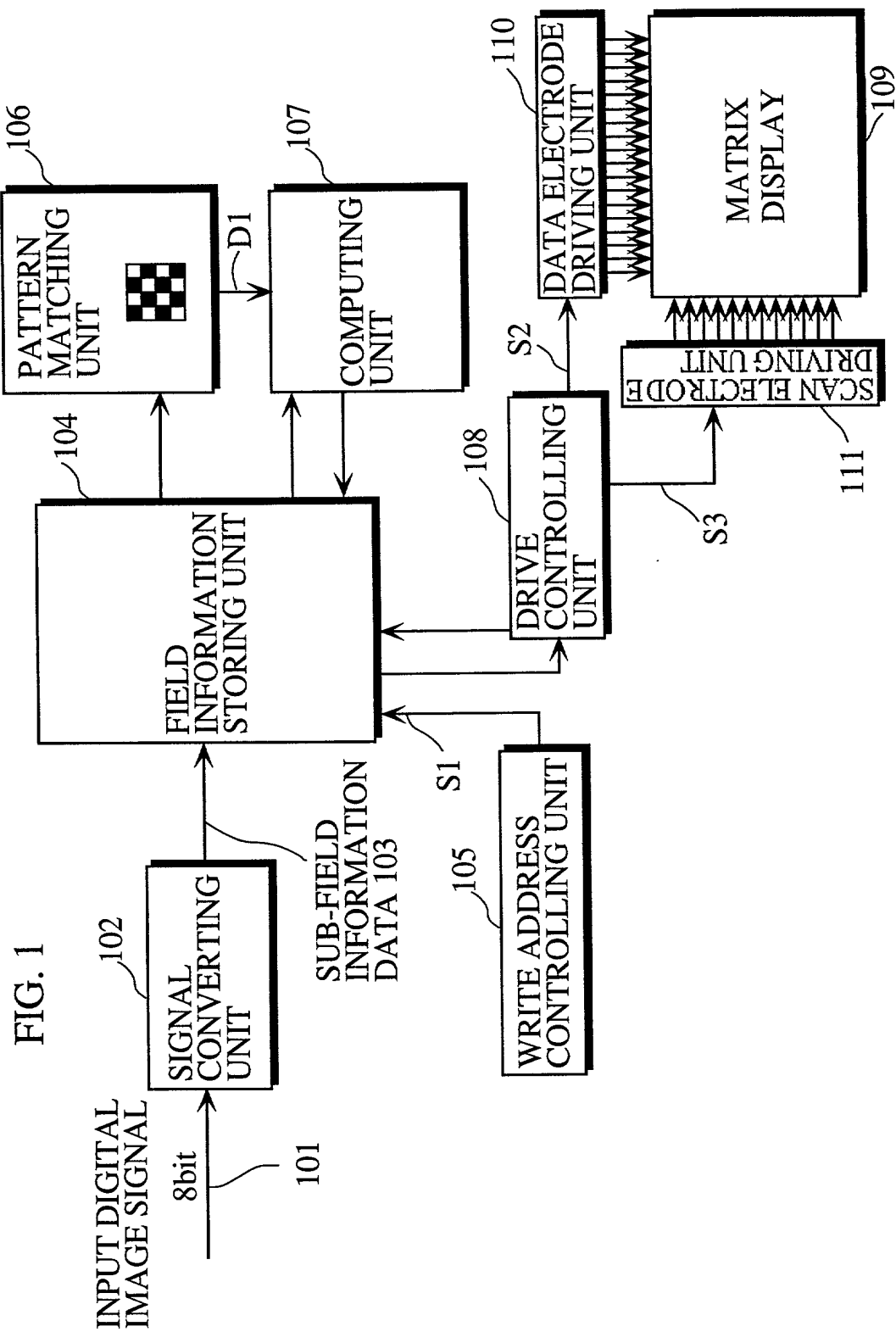


FIG. 2

SUB-FIELD

	SF1 (128)	SF2 (64)	SF3 (32)	SF4 (16)	SF5 (8)	SF6 (4)	SF7 (2)	SF8 (1)	SF9 (0.5)
0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	1	0
2	0	0	0	0	0	0	1	0	0
3	0	0	0	0	0	0	1	1	0
4	0	0	0	0	0	1	0	0	0
5	0	0	0	0	0	1	0	1	0
.	.	.	.	.	.	.	.	.	.
65	0	1	0	0	0	0	0	1	0
.	.	.	.	.	.	.	.	.	.
253	1	1	1	1	1	1	0	1	0
254	1	1	1	1	1	1	1	0	0
255	1	1	1	1	1	1	1	1	0

8-BIT INPUT DIGITAL IMAGE SIGNAL

0 . . . . OFF

1 . . . . ON

FIG. 3

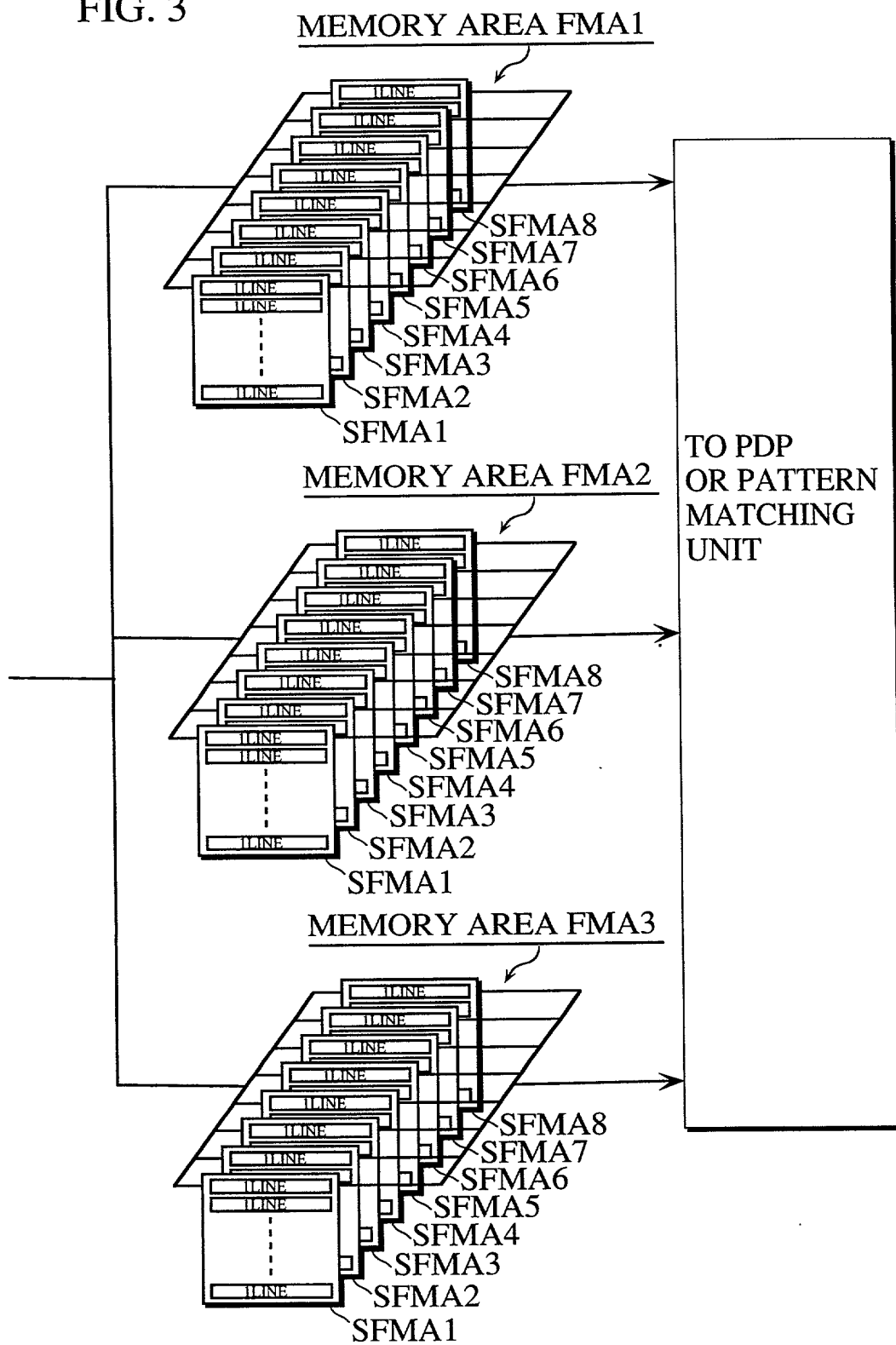


FIG. 4A

0	1	0	1	0	1
1	0	1	0	1	0
0	1	0	1	0	1
1	0	1	0	1	0
0	1	0	1	0	1
1	0	1	0	1	0

FIG. 4B

1	1	1	1	1	1
0	0	0	0	0	0
1	1	1	1	1	1
0	0	0	0	0	0
1	1	1	1	1	1
0	0	0	0	0	0

FIG. 5

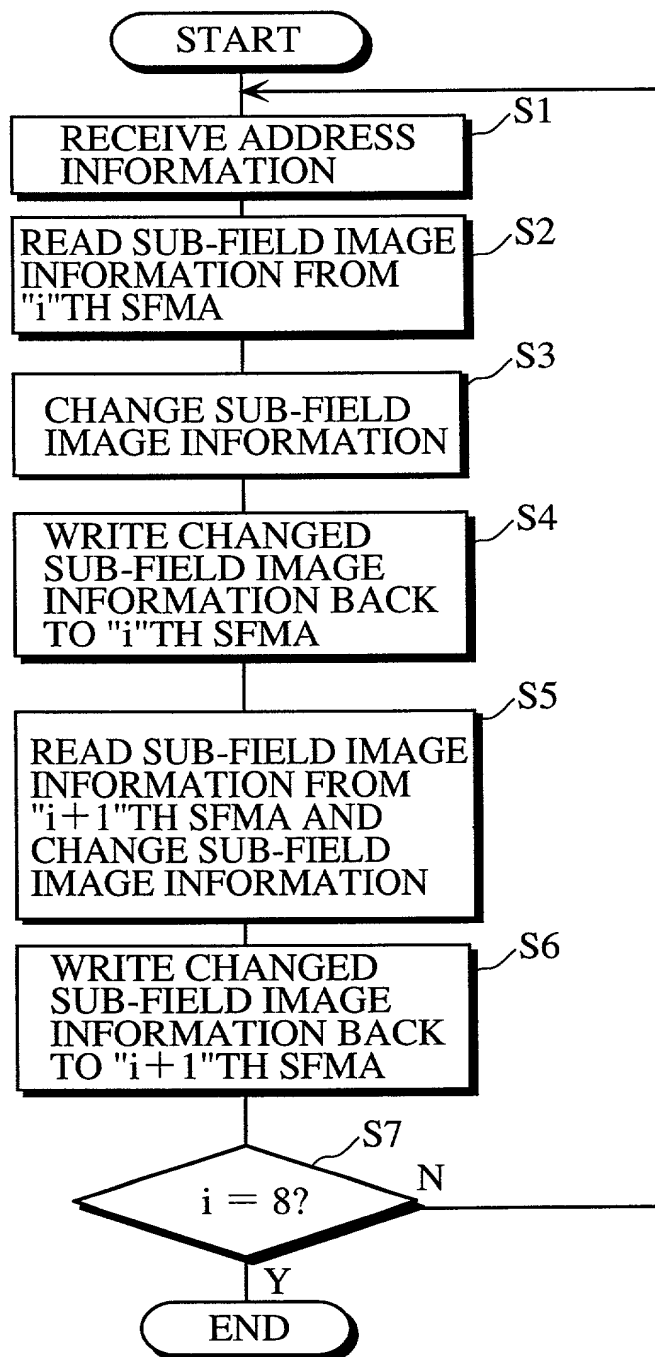


FIG. 6A

FIG. 6B

FIG. 6C

SF3 SUB-FIELD IMAGE

[illegible]

**\*=0 OR 1**

SF3 CHANGED  
SUB-FIELD IMAGE

[illegible]

LUMINANCE WEIGHT = "32"

SF4 CHANGED  
SUB-FIELD IMAGE

[illegible]

**\*=0 OR 1 LUMINANCE WEIGHT="16"**

FIG. 7A

*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*
*	*	*	1	0	1	0	*	*	*
*	*	*	1	0	1	0	*	*	*
*	*	*	1	0	1	0	*	*	*
*	*	*	1	0	1	0	*	*	*
*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*

\*=0 OR 1

CHANGE  
↑

FIG. 7B

*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*
*	*	*	0	0	0	0	*	*	*
*	*	*	0	0	0	0	*	*	*
*	*	*	0	0	0	0	*	*	*
*	*	*	0	0	0	0	*	*	*
*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*

CHANGE IS PROHIBITED



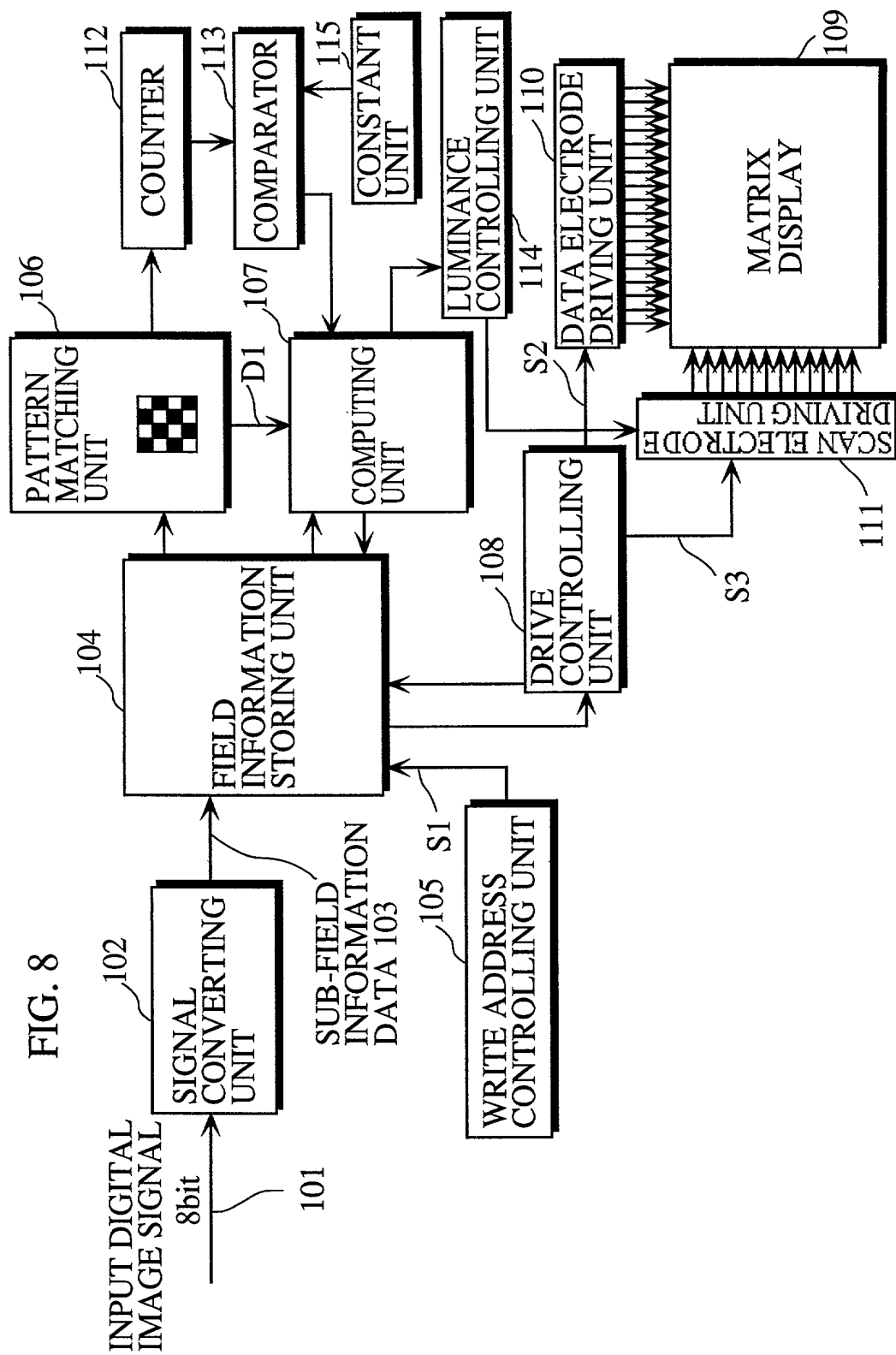
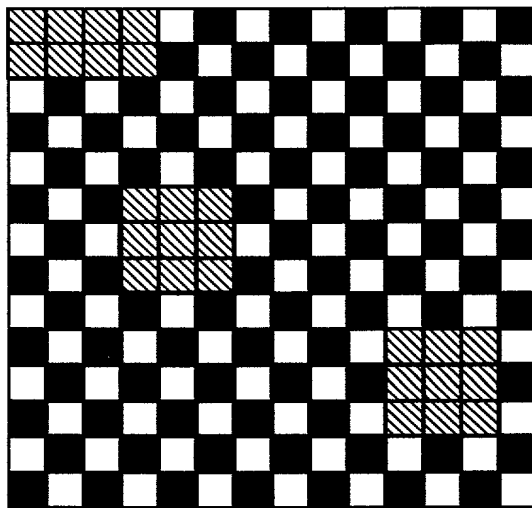


FIG. 9A

PATTERN IN SF3 WITH  
LUMINANCE WEIGHT OF "32"  
(MORE THAN HALF OF  
IMAGE IS CHECKERED)



BEFORE CHANGE

■ : ON

□ : OFF

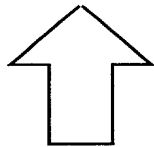
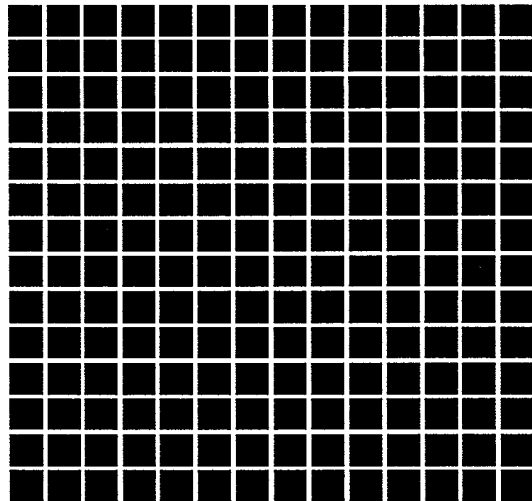


FIG. 9B

DISPLAY SOLID IMAGE WITH  
LUMINANCE WEIGHT OF SF3  
BEING DECREASED TO "16"



AFTER CHANGE

■ : ON

FIG. 10

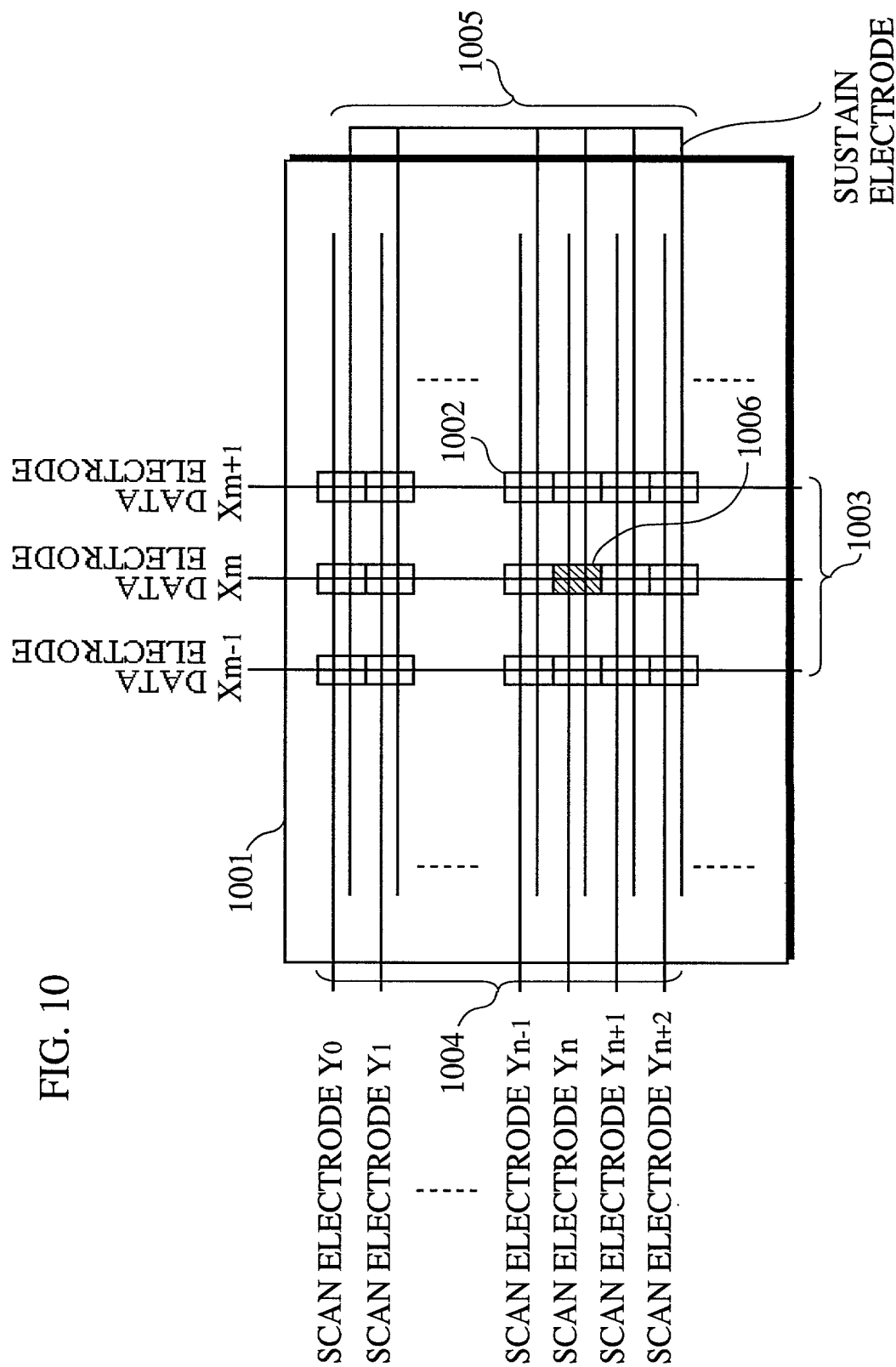


FIG. 11

